

# Cumulative Index to Editorial Subjects

*This index covers the present Volume XX (1948-49) and Volumes XIX (1947-48), XVIII (1946), XVII (1945), XVI (1944), XV (1943), XIV (1942), XIII (1941), XII (1940), and XI (1939). A cumulative index to the previous Volumes I through X, was published in Volume X.*

## A

Accessibility—XIII, 524; XIV, 345  
 Accident Prevention [See Safe Design]  
 Accounting, Child—XI, 343; XII, 368  
 Acoustical Treatment—XII, 43, 307, 311, 441; XIII, 185; XIV, 262; XVII, 278; XIX, 117  
 Adaptability [See Flexibility]  
 Administration Building—XIII, 387  
 Administrative Office [See Office]  
 Administrative Units—XII, 556  
 Administrator, Functions of, in School Planning—XVI, 14; XIX, 52, 57  
 Adults, Provisions for—XI, 17, 19; XIII, 15, 24, 28, 516; XIV, 13, 68, 212; XVI, 52; XVII, 33, 68; XVIII, 28  
 Advertisers, Alphabetical List of—XIII, 624; XIV, 487; XV, 366; XVI, 443; XVII, 569; XVIII, 658  
 Advertisers, Classified Index to Products—XIII, 611; XIV, 473; XV, 353; XVI, 426; XVII, 548; XVIII, 6  
 Air-Conditioning Systems—XI, 37; XIII, 320  
 Air Views, Colleges and Universities—XI, 209, 213; XII, 180, 221; XVIII, 43; XX, 39, 158, 177  
 Air Views, Combined Elementary and High School Development—XI, 213; XIII, 17, 33; XX, 55  
 Air Views, High School—XI, 23, 209, 213  
 American Textbook Publishers Institute—XVI, 305  
 American Youth Hostels—XVI, 52  
 Amherst College, Kirby Memorial Theater—XIII, 295  
 Appalachian State Teachers College, Science Building at—XIII, 482  
 Apparatus, Laboratory [See Laboratory]  
 Aquaria—XI, 481  
 Archery Range—XII, 255  
 Architect, as Administrative Officer—XIX, 43  
 Architect, Selection of—XV, 21, 34  
 Architects' Fees—XII, 16; XVIII, 24  
 Architect, Function of, in School Planning—XVI, 18; XVIII, 66; XIX, 52, 57  
 Architects, Contractual Relations with—XVII, 13  
 Architects for University and School Projects—XIII, 163; XIV, 139; XV, 120  
 Architects, Manuals for—XIX, 48  
 Architectural Contract Forms—XIX, 222  
 Architectural Style—XII, 247, 432; XIII, 37; XIV, 66; XVI, 25, 46; XX, 27, 38, 109  
 Architecture, Responsibility of Schools of—XIX, 34  
 Art Rooms—XII, 296, 532; XIII, 333; XIV, 68, 246; XV, 193, 196; XVII, 126  
 Assembly Room—XIII, 390; XIV, 32, 68 [See also Auditorium]  
 Association of School Film Libraries, Inc.—XI, 312  
 Athletic Facilities [See Fields, Athletic; Physical Education; Playgrounds; Recreation; Swimming Pool; Winter Sports Facilities]  
 Audio-Visual Aids—XII, 316; XIII, 322; XIV, 259; XV, 205; XVII, 117, 397; XVIII, 35, 136, 152, 213, 215; XIX, 220  
 Auditorium-Gymnasiums—XVIII, 70  
 Auditoriums—XI, 304; XII, 25, 28, 46, 307, 313; XIII, 21, 66, 301, 317; XIV, 32, 268; XVI, 68; XIX, 132 [See also Stages]  
 Automotive Industries Shop—XIII, 522 [See also Shop Layouts and Equipment; Shops for Industrial Arts]  
 Aviation, Facilities for Teaching—XIV, 16; XV, 321

## B

Bacteriology Laboratory—XIII, 489  
 Baldwin Wallace College, Merner-Pfeiffer Residence Hall—XIV, 349

Band-Practice Facilities—XII, 304; XIII, 316; XIV, 32; XVIII, 184  
 Baseball Field—XII, 219  
 Basketball Court—XII, 269; XIV, 221  
 Bedrooms—XII, 424  
 Bibliography, Annotated, on All Phases of School Plant Planning—XIX, 226  
 Bibliography, Annotated, on the College Science Building—XIII, 488  
 Bibliography, Annotated, on School and College Buildings—XI, 52  
 Bibliography on Auditorium Planning—XIII, 306; XIV, 273; XVI, 68  
 Bibliography on College Science Plant Facilities—XVI, 104  
 Bibliography on Commercial Education Facilities—XI, 358  
 Bibliography on Dormitories—XVI, 95  
 Bibliography on Industrial Arts Laboratory Planning and Equipment—XI, 518; XIII, 533  
 Bibliography on Maintenance of Living Material in Biological Laboratories—XI, 485  
 Bibliography on Physical Education Facilities and Equipment—XV, 158; XVIII, 183  
 Bibliography on Purchasing—XVII, 380  
 Bibliography on Ski-Jump Construction—XI, 252  
 Bibliography on Ski-Tow Construction—XI, 258  
 Bibliography on Toboggan-Chute Construction—XI, 243  
 Bibliography on University Library Planning—XIII, 315  
 Bidding—XII, 18  
 Billing-Machine Classroom—XI, 354 [See also Commercial Classrooms]  
 Biology Laboratories—XI, 480; XII, 493; XIII, 484; XV, 45 [See also Laboratory]  
 Blackboards [See Chalkboards]  
 Boards, School—XIX, 63  
 Boiler-Room Equipment—XII, 33; XIII, 173  
 Bookcases and Bookshelves—XI, 299; XIV, 256  
 Bookkeeping Classrooms—XI, 354, 355; XII, 375; XIII, 523 [See also Commercial Classrooms]  
 Books on Building and Equipment [See Bibliography]  
 Botany Laboratory—XIII, 487  
 Broadcasting Apparatus—XII, 298, 318; XIII, 329; XVI, 288  
 Bucknell University, Chemistry Department—XIII, 490  
 Building Codes—XVI, 31  
 Building Costs—XII, 13; XVI, 401, 404; XVIII, 47  
 Building Programs [See Planning]  
 Building Survey: XX, 102 [See also Planning]  
 Business Education Equipment, Care of—XV, 201; XVII, 295  
 Business Training—[See Commercial Education]  
 Bus Drivers—XI, 546; XVII, 535, 539, 543; XX, 260  
 Bus Garages, School—XIX, 146; XX, 263  
 Bus Ownership Trends—XII, 552; XVI, 12; XVII, 532  
 Bus Routes—XI, 544; XII, 560; XIII, 556; XVII, 539  
 Bus Standards—XI, 540; XII, 554; XIII, 560; XVII, 536; XVIII, 243  
 Buses—XI, 540; XII, 550; XVI, 12; XVII, 532, 536, 540; XVIII, 243

## C

Cabinet-Making Shop—XIII, 522  
 Cabinets—XIII, 334, 532; XIV, 340  
 Cabool Consolidated Schools, Texas County, Missouri—XII, 223  
 Cafeteria-Counter Design—XII, 438

Cafeteria Design and Equipment—XII, 26; XIII, 20, 66, 188, 408; XIV, 333, 345; XV, 247; XVI, 84; XVII, 107; XVIII, 70, 127  
 Cafeteria, Financing the School—XIX, 162  
 Cafeteria, Organization of Centralized Department—XI, 419; XIX, 158  
 Cages, Animal—XI, 483  
 Camping—XVIII, 192  
 Campus Development and Upkeep—XI, 203; XII, 177, 217; XVI, 36, 46; XVII, 62 [See also Grounds]  
 Canning Plant—XVIII, 167  
 Carpenter Shop—XII, 181  
 Ceiling Construction, Hung—XIV, 155  
 Ceilings, Acoustical Treatment of—XII, 45; XIII, 186  
 Census, School, Taking the—XII, 368  
 Central Missouri, State Teachers College, Health and Physical Education Building—XIV, 215  
 Clubot Terrace Project—XV, 26  
 Chalk, Tests for—XIII, 180  
 Chalkboards—XII, 294; XIV, 60; XVIII, 209; XIX, 122  
 Checklist for Secondary-School Classrooms—XIV, 252  
 Chemicals, Purchase of—XI, 472; XIV, 373  
 Chemistry Laboratories—XI, 465; XII, 493; XIII, 484, 490; XV, 267 [See also Laboratory]  
 Child-Accounting Records—XI, 343; XII, 368  
 Choral Practice Rooms—XII, 304; XVIII, 184  
 Cincinnati, Ohio, Cooperative Recreation Program—XII, 256  
 Cincinnati, Ohio, Practical Arts Program—XIV, 411  
 Cincinnati, Ohio, Community and School Participation in Building Program—XVIII, 36  
 City Planning and School Planning—XI, 21; XIII, 15, 247; XIV, 18, 21; XVII, 12, 26, 31, 35, 40; XIX, 21 [See also Community Use of School Plant; Planning Coordination of City and School System]  
 Civilian Conservation Corps and School Planning—XIV, 15  
 Classroom Design and Equipment—XII, 24, 25, 30, 32; XIII, 65; XIV, 13, 51, 248; XV, 20, 37; XVI, 25, 31, 46; XVII, 117; XVIII, 73, 203 [See also Classrooms]  
 Classroom for Economic Geography—XI, 358  
 Classroom Seating—XIII, 325; XIV, 242  
 Classroom Supplies [See Supplies]  
 Classrooms, Acoustical Treatment of—XII, 45  
 Classrooms, College—XI, 288  
 Classrooms, Elementary—XIII, 34, 44, 45, 288; XIV, 18, 20, 51, 64; XV, 20, 31, 37; XVIII, 203  
 Classrooms, Kindergarten—XI, 33  
 Classrooms for Commercial Education [See Commercial Classrooms]  
 Classrooms for Home Economics Education [See Home Economics Classrooms]  
 Classrooms for Industrial Arts—XIII, 528; XIV, 412; XV, 193, 196, 299  
 Classrooms for Junior High Schools—XII, 293  
 Classrooms for Mathematics—XVIII, 199  
 Classrooms for School Activities—XIV, 265  
 Classrooms for Social Studies—XI, 292; XIV, 251  
 Classrooms for Vocational Agriculture—XVIII, 161  
 Clay, Modeling, Tests for—XIII, 178  
 Cleaning, Vacuum—XI, 5; XIV, 165  
 Cleveland, Ohio, Rehabilitation Program in—XIV, 26  
 Cleveland Heights, Ohio, Centralized Cafeteria Department—XI, 419  
 Cloth, Tests for—XIII, 181  
 Clothing Classrooms—XI, 424; XIII, 20, 422, 517; XIV, 340

Club Rooms [See Classrooms for School Activities]  
 Codes, School Building [See Building Codes]  
 College and University Facilities—XI, 18, 208, 236, 288, 409, 413, 465; XII, 49, 246, 265, 301, 375, 421, 438, 489, 496, 498; XIII, 254, 295, 307, 316, 432, 476, 490; XIV, 49, 218, 222, 298, 333, 349; XV, 152, 267; XVI, 36, 95, 97, 104; XVII, 95, 126; XVIII, 59, 54, 91, 98, 106, 110, 177; XX, 32, 41, 86, 161, 223 [See also Air Views; Floor Plans; Ground Plans]  
 Color in Building—XI, 31, 298; XII, 24, 28; XIV, 54; XVI, 28  
 Commercial Classrooms and Departments—XI, 351, 353; XII, 373; XIII, 372, 381; XIV, 304; XV, 201; XVI, 88; XVIII, 155; XIX, 217  
 Community and School Planning—XIX, 21; XX, 95  
 Community Feeding—XV, 239  
 Community-School Landscaping Program—XII, 203  
 Community Use of School Grounds—XIV, 212; XV, 165; XVII, 58  
 Community Use of School Plant—XI, 17, 19, 25; XII, 40, 256, 313; XIII, 15, 24, 28, 37, 247; XIV, 13, 23, 68; XV, 22, 26; XVI, 292; XVII, 33, 49, 68; XVIII, 28, 75, 161  
 Consolidated School—XIII, 28; XIV, 41 [See also Grounds Plans]  
 Consolidated-School Libraries—XI, 297  
 Consolidation of Schools—XI, 24  
 Consumer Education, Facilities for—XVI, 80  
 Contract Forms—XIX, 222, 224  
 Cooking [See Food]  
 Corkboards [See Display Boards]  
 Corrective Exercise Gymnasium—XIV, 15, 222; XVI, 90  
 Corridors—XII, 23, 29, 57, 60, 490; XIII, 62, 63, 186  
 Cosmetology Classrooms—XIII, 428, 521  
 Costs, Heating and Ventilating—XI, 40  
 Costs, of Dormitories—XII, 378  
 Costs, Pupil Transportation—XIII, 553; XVII, 536  
 Costs, School-Building—XII, 13; XVII, 19; XVIII, 47  
 Crayons, Tests for—XIII, 180  
 Cultures, Biological—XI, 484  
 Cupboards—XIII, 334, 532  
 Current Distribution, for Laboratories—XII, 499  
 Curriculum, Changing—XI, 17, 21, 288  
 Custodial Facilities—XIX, 144  
 Custodial Service—XI, 167; XII, 177; XIII, 172; XVI, 236, 410; XVII, 281 [See also Maintenance of Buildings and Grounds]

## D

Damp-proofing [See Waterproofing]  
 Dartmouth College, Ice-Hockey Rink—XI, 262  
 Depreciation—XI, 174  
 Design, Modular—XIX, 80  
 Design Types—XII, 14  
 Designing Schools [See Planning]  
 Desks, Classroom—XIII, 185, 325; XIV, 245  
 Desks, Laboratory—XII, 497  
 Desks, Refinishing—XVI, 232  
 Dining Facilities—XI, 412; XII, 424, 438; XIII, 441; XIV, 337; XVI, 84 [See also Cafeterias]  
 Dining Rooms, for Home Economics Instruction—XIII, 517  
 Display Boards—XII, 294  
 Distributive Education Facilities—XIII, 373, 381; XVIII, 155  
 Doctor's Office [See Health Service Rooms]  
 Dog Stalls—XII, 494  
 Domestic Science [See Home Economics]  
 Dormitory Design and Equipment—XI, 409, 413; XII, 421; XIII, 432; XIV, 349; XVI, 95; XVIII, 110; XIX, 139; XX, 171  
 Dormitory Management—XI, 409; XII, 421; XIII, 429; XVI, 95; XVII, 95  
 Downer's Grove, Ill., Community High School Development—XI, 205, 206  
 Drafting Room—XIII, 523; XIV, 415  
 Drainage of Grounds—XI, 214  
 Dramatic Facilities [See Auditorium; Stage; Theater]  
 Drawing Classroom [See Art Rooms]  
 Dressing Rooms—XII, 253, 264, 304; XIII, 262  
 Drinking Fountains—XI, 47; XII, 27, 40; XIII, 35  
 Drivers, Bus—[See Bus Drivers]  
 Driveways—XI, 215  
 Duplicating-Machine Classroom—XI, 355; XIII, 377; XV, 201 [See also Commercial Classrooms]

## E

Eating Rooms [See Cafeterias; Dining Halls]  
 Economies in Plant Operation—XVII, 281  
 Economy in Construction—XII, 13  
 Edison Vocational School, Seattle, Wash.—XII, 525  
 Educational Finance Inquiry Commission—XVI, 400  
 Electric Light and Power—XV, 91  
 Electrical Engineering Consultants for University and School Projects—XIII, 67; XIV, 148; XV, 93; XIX, 112  
 Electrical Equipment—XII, 432, 499; XIII, 65; XIV, 261  
 Elementary-School Facilities—XI, 17, 31, 204; XII, 257, 258; XIII, 40, 288, 528; XIV, 345, 411; XV, 20, 26, 37; XVIII, 203; XX, 236 [See also Air Views; Floor Plans; Ground Plans]  
 Elevator, Orchestra—XIII, 321  
 Engineering Consultants, Mechanical and Electrical—XIII, 67; XIV, 148; XV, 93  
 Engine Room—XIII, 65  
 English Rooms—XII, 47, 295; XIV, 250  
 Enrollment Trends—XI, 16, 19  
 Entrances and Entrance Halls—XI, 32; XIII, 63  
 Equipment, Classified Index to Manufacturers of—XIII, 605; XIV, 473; XV, 353; XVI, 426; XVII, 548; XVIII, 6; XIX, 6; XX, 3  
 Equipment, List of Manufacturers of—XIII, 624; XIV, 487; XV, 366; XVI, 443; XVII, 569; XVIII, 658; XIX, 641; XX, 719  
 Equipment Maintenance [See Maintenance]  
 Equipment Purchasing [See Purchasing]  
 Evolution of the School Building—XX, 55

## F

Family-Life Education [See Home Economics]  
 Farm Mechanics Shop—XVIII, 161, 170  
 Federal Radio Education Committee—XVI, 288  
 Federal Works Agency—XVIII, 63  
 Fields, Athletic—XII, 217, 254; XIV, 185, 215  
 Filing-Practice Classrooms—XI, 355; XIII, 376 [See also Commercial Classrooms]  
 Filing Systems—XI, 346, 465  
 Film Libraries, Association of—XI, 312  
 Films, Integration of—XIX, 177  
 Films, Sources of—XI, 312  
 Financing Building Program—XII, 56; XVI, 404; XVII, 54; XVIII, 23; XIX, 60; XX, 50  
 Financing Institutions—XII, 19; XVII, 57  
 Financing Pupil Transportation—XIII, 553  
 Fine Arts Plant Planning—XVII, 126  
 Finishes, Interior—XII, 14  
 Fire Protection—XI, 51; XIII, 61; XVI, 406; XVII, 289  
 Flashing—XIII, 47; XIV, 153  
 Flexibility and Adaptability—XI, 26; XII, 23, 34, 51; XIII, 518; XIV, 43; XV, 36  
 Floor Finishing—XIII, 190; XIV, 161  
 Floor Maintenance—XI, 168; XII, 190; XIV, 161; XVI, 225  
 Floor Materials—XI, 509; XII, 294; XIV, 161; XVI, 29  
 Floor Plans, Audio-Visual Aids Outlets—XVIII, 138, 143  
 Floor Plans, Cafeteria—XVII, 107  
 Floor Plans, College and University—XI, 289; XII, 48, 49, 267, 302, 314, 315, 423, 424, 425, 426, 427, 428, 429, 431, 433, 495, 498; XIII, 308, 311, 312, 314, 318, 319, 433, 485; XIV, 50, 350; XV, 267, 318, 322; XVI, 36; XVIII, 92-94, 100, 104, 107, 108, 121, 123-125; XX, 164, 187-192  
 Floor Plans, Combined Elementary and High School—XI, 27; XII, 52  
 Floor Plans, Combined Elementary, Kindergarten, Nursery School—XVIII, 62  
 Floor Plans, Community Canning Plant—XVIII, 166, 168  
 Floor Plans, Distributive Education Classrooms—XVIII, 154, 158  
 Floor Plans, Elementary School—XI, 27, 28, 29, 30; XII, 25, 56, 57, 60; XIII, 19, 43; XIV, 64, 345; XV, 20, 187, 313; XVI, 18, 46, 68; XX, 66, 67, 68, 208  
 Floor Plans, Farm Shop—XVIII, 173  
 Floor Plans, Fraternity House—XVII, 103  
 Floor Plans, Gymnasium and Natatorium—XIII, 255; XIV, 219; XV, 23; XVIII, 180, 181  
 Floor Plans, High School—XI, 354, 355, 356, 358, 424, 514, 515, 516, 517; XII, 30, 31, 44, 59, 302; XIV, 248; XV, 45, 302, 309, 314; XVIII, 65

Floor Plans, Junior College—XII, 309, 310  
 Floor Plans, Junior High School—XI, 39, 293; XII, 55, 295, 296, 297; XV, 314; XVIII, 86-89  
 Floor Plans, Junior-Senior High School—XII, 25  
 Floor Plans, Kitchen—XVIII, 128, 129, 132; XX, 151  
 Floor Plans, Library—XVI, 97; XVIII, 100-104; XX, 194, 198  
 Floor Plans, Mathematics Classroom—XVIII, 199  
 Floor Plans, Model School—XIV, 50; XVIII, 59  
 Floor Plans, Nursery School—XV, 24, 178, 180, 182; XVI, 46  
 Floor Plans, Office Practice Classrooms—XVIII, 157, 159  
 Floor Plans, Radio Suite—XVIII, 217  
 Floor Plans, Rural School—XI, 26; XII, 37, 38, 39, 52; XVII, 69; XVIII, 78, 82  
 Floor Plans, Theater—XVIII, 92-94  
 Floor Plans, Typical Schools—XII, 15; XVI, 60  
 Floor Plans, Vocational School—XII, 526, 527; XIII, 518, 519; XV, 301, 308; XVI, 72, 88; XVII, 86, 89, 92; XVIII, 165  
 Floors—XIX, 106  
 Fluorescent Lighting—XIV, 414  
 Food Service, in Dormitories—XI, 412, 413; XII, 438; XIII, 429; XIV, 337; XV, 247  
 Food Service, in School Cafeterias—XI, 420; XIII, 438; XV, 247; XVI, 84; XVIII, 127  
 Foods Classrooms—XI, 424; XIII, 425, 521; XVII, 113  
 Form for Bus Driver's Report—XII, 560; XVII, 541  
 Form for Report of Testing Division—XII, 182  
 Form for Requisitioning Supplies—XIII, 177; XVI, 236; XVII, 379  
 Form for Transportation-Route Survey—XI, 545  
 Forms, Contract—XIX, 222, 224  
 Forms for Audio-Visual Education Department—XII, 319  
 Forms for Cafeteria-Department Records—XI, 420  
 Forms for Child-Accounting Records—XI, 346; XII, 369, 370, 371, 372  
 Forms for Data on School Districts—XI, 347, 349  
 Forms for Data on Teaching Personnel—XI, 344, 346  
 Forms for Laboratory Apparatus and Supply Accounting—XI, 469, 470; XIII, 478, 479; XIV, 373  
 Forms for Operation and Maintenance Department—XII, 179, 187; XVIII, 239, 241  
 Foundations as a Source of Financial Aid—XII, 19  
 Foyers—XI, 32; XIII, 320  
 Fraternity Houses, Planning and Designing—XVII, 102  
 Fume Hood—XIII, 494  
 Fund Raising—XII, 20  
 Furniture Buying—XII, 183  
 Furniture, Classroom—XIII, 325; XIV, 54, 242  
 Furniture, Dormitory—XII, 426  
 Furniture, Library—XI, 302; XII, 312; XIV, 242, 256  
 Furniture, Refinishing—XII, 186, 188; XVI, 232; XVIII, 240  
 Furniture, Typing Room—XIV, 304

## G

Garages, School Bus—XIX, 146  
 Geography, Aids for Teaching—XIX, 188, 194  
 Geography, Economic, Classroom for—XI, 358  
 Germicidal Lighting [See Lighting, Germicidal]  
 Glassware, Laboratory [See Laboratory]  
 Grade Schools [See Elementary Schools]  
 Grading of Grounds—XI, 214; XIV, 186  
 Grammar Schools [See Elementary Schools]  
 Grants-in-Aid—XII, 20  
 Grass, Planting and Maintenance of—XV, 130  
 Greenhouse Design and Equipment—XII, 498  
 Grounds, Landscaping of [See Landscape Design and Construction]  
 Grounds Plan, Camp Site—XVIII, 197  
 Grounds Plans, College and University—XI, 208, 210, 211; XII, 178; XVI, 36; XVII, 64; XX, 35, 115, 218, 222-223, 249-251  
 Grounds Plans, Consolidated Schools—XII, 223; XIII, 31, 223; XIV, 186; XVII, 68  
 Grounds Plans, Elementary School—XI, 27; XIII, 42, 218; XIV, 38, 213; XV, 22, 27, 29, 186; XVI, 19; XX, 210, 227, 234-239





Grounds Plans, High School—XI, 22, 204; 205; XII, 23; XIII, 229; XIV, 28, 185, 215; XV, 27, 165; XVI, 220; XX, 123, 247-249  
 Grounds Plans, Junior High School—XIII, 219; XIV, 34  
 Grounds Plans, Teachers College—XI, 210  
 Ground Plan, Village College—XVIII, 77  
 Grounds, Upkeep of—XII, 180, 190, 217; XIII, 221; XIV, 190; XV, 130  
 Gutters—XIII, 47  
 Gymnasiums—XII, 35, 246, 265; XIII, 64, 255; XIV, 218, 222, 346; XV, 23, 162, 165; XVI, 90; XVIII, 35

## H

Handicapped Children, Provisions for—XI, 20  
 Hazard Prevention [See Safe Design]  
 Health Service Rooms—XIII, 51; XIV, 218  
 Heating and Ventilating Costs—XII, 16; XV, 89; XVII, 283  
 Heating and Ventilating Systems—XI, 37; XII, 41, 181, 189, 430; XIII, 256, 264; XVI, 27, 60, 228, 410; XVIII, 231; XIX, 100; XX, 145  
 Henry E. Huntington School—XV, 22  
 Higher Education [See College and University]  
 High-School Facilities—XI, 17, 205, 206, 351, 353, 424; XII, 28, 47, 58, 224, 258, 259, 301, 311, 312, 373, 435, 499, 531; XIII, 24; XIV, 248, 254, 268; XV, 43, 165, 193, 196, 299, 301, 302, 307, 314; XVIII, 75; XX, 70, 77 [See also Air Views; Floor Plans; Grounds Plans]  
 Hixon Laboratory for Medical Research, University of Kansas—XII, 489  
 Home Economics Classrooms and Departments—XI, 424; XII, 33, 453; XIII, 23, 422; XIV, 339; XV, 239; XVIII, 73, 113; XX, 150  
 Home-making [See Home Economics]  
 Hostels—XVII, 119  
 Household Management [See Home Economics]  
 Housing, Faculty—XIX, 135  
 Housing (Large-Scale) and School Planning—XIV, 18, 21; XV, 26; XVI, 36; XVII, 35; XX, 50

## I

Ice-Skating Facilities—XI, 235, 259  
 Illinois University Campus Plan—XVII, 64  
 Illumination [See Lighting]  
 Independent Schools [See Private Schools]  
 Indiana University Demonstration School—XIV, 49  
 Industrial Arts Facilities—XI, 508; XII, 33, 34, 531; XIII, 21, 528; XIV, 411; XV, 193, 196, 299 [See also Shop]  
 Informative Code—XVI, 31  
 Ink, Tests for—XIII, 182  
 Inspection, as part of Operation and Maintenance Program—XI, 171, 175; XII, 178, 185; XIV, 152; XVIII, 235  
 Insulation, Sound—XII, 44  
 Insurance—XVI, 406; XIX, 199  
 Interior Decorating—XI, 31; XIV, 54  
 Interior Walls—XIX, 86  
 Inventory in Laboratory—XIII, 479; XIV, 373  
 Inventory in School Cafeteria—XI, 420  
 Inventory in School Shop—XV, 327  
 Inventory in Storeroom—XVII, 303, 386  
 Iowa State University Library—XVIII, 98  
 Iowa State University School of Fine Arts—XVII, 126  
 Irrigation of Grounds—XI, 215

## J

Janitorial Facilities—XIX, 144  
 Janitorial Service [See Custodial Service]  
 Junior-College Business Education Facilities—XIII, 372  
 Junior-College Facilities—XI, 17; XII, 308; XVIII, 75, 84; XX, 157  
 Junior-High-School Facilities—XI, 292; XII, 293, 531; XVIII, 64 [See also Air Views; Floor Plans; Grounds Plans]  
 J. W. Sexton High School—XV, 43; XVI, 220

## K

Kanawha County, W. Va., School-Building Program—XII, 54  
 Kansas, University of, Hixon Laboratory for Medical Research—XII, 489  
 Kindergarten Planning—XI, 33 [See also Nursery Schools]  
 Kitchen Equipment, Care of—XV, 247  
 Kitchens [See also Cafeterias]

Kitchens, Cafeteria—XII, 27; XIII, 438; XIV, 346; XVIII, 128  
 Kitchens in Dormitories—XI, 413; XII, 424; XIII, 429; XIV, 333  
 Kitchens in Home Economics Departments—XI, 425; XII, 436; XIII, 426; XIV, 339; XVIII, 115  
 Kitchens, Mobile—XV, 239

## L

Laboratory Apparatus and Supplies, Acquisition and Care of—XI, 465; XIII, 476; XIV, 373; XVI, 104; XVII, 382  
 Laboratory, Biological, Care of Living Material in—XI, 480  
 Laboratory, Home Economics [See Home Economics Facilities]  
 Laboratory, Industrial Arts—XI, 508; XIV, 412; XV, 193; XVI, 88 [See also Industrial Arts]  
 Laboratory Planning and Equipment—XI, 289, 405; XII, 32, 489, 496, 499; XIII, 35, 476, 482, 490; XV, 193, 196, 267; XVI, 104; XVIII, 72, 106  
 Laboratory Servicing—XI, 465; XIII, 476; XIV, 373  
 Laboratory, Social Studies—XI, 294; XIV, 251  
 Laboratory Storage Rooms—XI, 478; XIII, 476  
 Landscape Architect, Functions of—XIII, 217, 222  
 Landscape Architects for University and School Projects—XIII, 227; XIV, 193; XV, 139  
 Landscape Design and Construction—XI, 203; XII, 181, 217, 223; XIII, 217, 222; XIV, 185; XV, 130; XVI, 220; XX, 113  
 Language Rooms—XI, 291; XII, 296  
 Lanham Act, School Building—XVI, 46  
 Lansing, Mich., Thomas Street School—XI, 31  
 Laundry, for Home Economics Instruction—XIII, 424  
 Laundry of Laboratory Glassware—XI, 476  
 Lawn Planting—XV, 130  
 Lavatories—XI, 47; XII, 27  
 Leaders—XIII, 60  
 Lecture Rooms—XI, 290; XII, 494  
 Lexington, Ky., Maintenance Organization—XI, 166  
 Library, Buying Books for—XVII, 394  
 Library Equipment—XIX, 218  
 Library Planning—XII, 26, 254, 296, 492; XIII, 21; XIV, 69, 254; XVI, 97, 292; XVIII, 98; XIX, 124  
 Library Planning, for Consolidated Schools—XI, 297  
 Library Planning, for Junior Colleges—XII, 308  
 Library Planning, for Secondary Schools—XIV, 254  
 Library Planning, for Universities—XIII, 307; XVI, 97; XVIII, 98; XX, 193  
 Lift [See Elevator]  
 Light-proofing Rooms—XIV, 259  
 Lighting, by Skylight—XI, 42  
 Lighting, Auditorium—XII, 318  
 Lighting, Classroom—XII, 293; XIII, 294; XIV, 67; XV, 19, 40, 184; XVI, 27, 60; XVII, 72, 286; XVIII, 219; XIX, 93; XX, 124  
 Lighting Costs—XV, 89; XVII, 286  
 Lighting, Fluorescent—XIV, 414  
 Lighting, Germicidal—XVIII, 225; XX, 131  
 Lighting, High-Level Daylight—XIV, 57; XV, 184; XVI, 27; XVII, 72  
 Lighting, Library—XII, 311; XIII, 313  
 Lighting, Stage—XI, 307  
 Living Rooms, for Homemaking Classes—XII, 437; XIII, 424, 517  
 Living Rooms, in Dormitories—XI, 410  
 Lobbies—XII, 268; XIII, 388, 389; XIV, 271  
 Location of Educational Buildings [See Site Selection]  
 Locker Rooms, Gymnasium—XII, 253, 266, 269; XIII, 262  
 Lockers—XI, 169; XII, 304  
 Los Angeles, Calif., Maintenance Program—XI, 174  
 Lunch Rooms [See Cafeterias]

## M

Machine Shops—XII, 490, 533; XIII, 523; XIV, 17, 416; XVIII, 237  
 Maintenance of Buildings and Grounds—XI, 24, 171, 174; XII, 177, 185, 217; XIV, 152, 157, 161, 165; XVI, 410 [See also Repairs; Reconditioning and Remodeling]  
 Maintenance of Business Education Equipment—XV, 291; XVII, 295  
 Maintenance of Food Service Equipment—XV, 247; XVI, 84

Maintenance of Machine Shops—XIV, 405; XVIII, 235  
 Maintenance of School Buses—XVII, 535, 536, 540  
 Maintenance of School Furniture—XVI, 232; XVII, 295, 297; XVIII, 235  
 Maintenance Organization in a Large Size School System—XVIII, 235  
 Maintenance Organization in a Medium-Size School System—XIV, 166  
 Maintenance Organization in a Small-Size School System—XII, 172  
 Manual Training [See Industrial Arts; Vocational Education]  
 Manuals, for Architects—XIX, 48  
 Manufacturers, Alphabetical and Classified Lists of—XIII, 605, 624; XIV, 473, 487; XV, 353, 366; XVI, 443; XVII, 569; XVIII, 6, 658  
 Manufacturers, Function of, in School Plant Planning—XVI, 23  
 Map, Showing Survey Data—XIII, 29, 248, 250, 251; XVII, 12; XVIII, 22, 36, 37  
 Maps and Charts—XVI, 297; XIX, 188, 194  
 Massachusetts State College—XII, 496, 498  
 Mathematics Suite—XI, 289; XVIII, 199  
 Mechanical Engineering Consultants for University and School Projects—XIII, 67; XIV, 148; XV, 93  
 Medical Research Laboratory—XII, 489  
 Menu Planning—XI, 421; XIII, 430; XVI, 84  
 Metal Shop—XIII, 522; XVI, 72 [See also Shop Layouts and Equipment; Shops for Industrial Arts]  
 Minnesota, University Library—XIII, 308, 309  
 Mobile Kitchen—XV, 239  
 Modernization [See Reconditioning]  
 Modular Design—XIX, 80  
 Modular Library—XVIII, 98  
 Motion Pictures, Films Available—XI, 312  
 Motion Picture Projectors—XIII, 322; XVI, 100  
 Multiple-Use Provisions—XI, 26; XII, 51; XIV, 41, 246, 345; XVII, 33, 68; XVIII, 69  
 Music Hall at Purdue University—XIII, 316  
 Music Rooms—XII, 46, 297, 301; XIII, 20; XVII, 132; XVIII, 184

## N

National Council on Schoolhouse Construction—XVII, 23  
 National Recreation Association—XVI, 52  
 National Resources Planning Board—XV, 12; XVI, 11  
 Natatorium and Gymnasium at Ohio State University—XIII, 254  
 National Youth Administration and School Planning—XIV, 15  
 Natural Lighting—XII, 293; XIV, 57; XV, 184; XVI, 27; XVII, 72; XVIII, 219 [See also Lighting]  
 Neighborhood Planning and School Planning—XI, 29; XIV, 13, 21; XV, 26; XVII, 41  
 New York State, Typical School Buildings in—XII, 17  
 North Carolina, University of, Gymnasium—XII, 265  
 Northwestern University Residence Halls—XIV, 333  
 Nursery School—XII, 35; XIV, 69; XV, 24, 177; XVI, 46; XVIII, 35, 118  
 Nurse's Office [See Health Service Rooms]

## O

Obstacle Course—XV, 152, 169  
 Office-Practice Classrooms—XI, 354; XII, 378; XIII, 375, 521; XV, 201; XVI, 88; XVIII, 155; XIX, 217 [See also Commercial Education]  
 Office, Administrative—XI, 86; XII, 26; XIII, 35, 187, 387; XIV, 298; XV, 188  
 Offices, for Physical Education Department—XII, 248  
 Ohio State University—XIII, 254; XVII, 95  
 Operating Statement, Monthly, for School Cafeteria—XI, 423  
 Operation and Maintenance—XI, 166, 171, 174; XII, 177, 185; XIII, 172; XV, 89; XVI, 410; XVII, 277; XVIII, 234  
 Operating Costs—XIII, 173; XV, 89; XVII, 281  
 Orchestra Lift—XIII, 321  
 Orchestra Practice Facilities—XII, 303; XIII, 316; XIV, 33; XVIII, 184  
 Outdoor Education—XVIII, 184

## P

Painting—XII, 186; XIII, 183, 184  
 Panels, Electric—XII, 199; XVIII, 85  
 Paper, Drawing, Tests for—XIII, 179  
 Parapet Wall Maintenance—XIV, 163

Parents' Room—XVIII, 73  
 Paving—XII, 218  
 Penmanship Classroom—XI, 357  
 Personnel [See Custodial Service; Teachers]  
 Physical Education Facilities—XI, 235, 240, 244, 248, 254, 259, 265; XII, 34, 217, 246, 250, 261, 265; XIII, 254, 262; XIV, 218, 222; XV, 152, 160, 165; XVI, 90; XVIII, 177  
 Physical Education for Women—XII, 246  
 Physician's Office [See Health Service Rooms]  
 Physics Laboratories—XII, 499; XIII, 476, 484; XV, 267  
 Physiological Laboratories—XII, 491, 496  
 Piping, Gas—XI, 50  
 Piping, Water—XI, 50  
 Pittsburgh, Pa., Recreational Opportunities in—XIII, 247  
 Planning, as Related to Construction Costs—XII, 13; XVI, 404  
 Planning Building Programs—XI, 13, 19, 21; XII, 13, 22, 36, 51, 54; XIII, 28; XIV, 18, 20; XV, 11, 17; XVI, 11, 14, 18, 46, 52, 60, 400; XVII, 12, 17, 26, 35, 40; XVIII, 21, 25, 32, 36, 63; XIX, 39, 63, 69, 201, 202, 207; XX, 30, 46, 63, 177, 202, 228, 231, 244, 253, 267  
 Planning, Coordination of City and School System—XI, 21; XII, 256; XIII, 15; XV, 11, 17, 26; XVI, 18; XVII, 12, 26, 31, 35, 40; XIX, 21  
 Playgrounds—XII, 257, 258, 259; XIV, 23, 185, 212; XVI, 22, 52; XVII, 61  
 Playground Surfacing—XIII, 267; XX, 118  
 Playground Lunchroom—XIV, 345  
 Plot Plans [See Grounds Plans]  
 Plumbing—XI, 46, 410; XII, 16, 27, 189, 430; XIII, 257; XIV, 68; XIX, 112; XX, 141  
 Population Trends—XI, 13, 19; XIV, 18, 21; XVII, 12; XVIII, 22  
 Practical Arts Facilities [See Industrial Arts Facilities]  
 Prefabrication—XVI, 46, 60  
 Preparatory Schools [See High Schools; Private Schools]  
 Primary Schools [See Elementary Schools]  
 Princeton University, Frick Chemical Laboratory—XI, 465; XIV, 373—Harvey Firestone Memorial Library—XX, 193  
 Principal's Office—XI, 36  
 Print Shop—XII, 533  
 Private-School Facilities—XI, 237; XII, 218, 219, 222  
 Programs for School Building and Site Selection [See Planning]  
 Projectors and Projection Equipment—XIII, 321, 322; XIV, 263; XVII, 117; XVIII, 136  
 Project Room—XI, 291  
 Public-Address Systems—XII, 298, 318; XIII, 330; XVIII, 215  
 Publications on Building and Equipment [See Bibliography]  
 Public School Facilities—XI, 237 [See also High School; Elementary School]  
 Purchasing for Cafeteria Department—XI, 420  
 Purchasing for Industrial Arts Department—XII, 531  
 Purchasing Laboratory Apparatus and Supplies—XI, 465; XIV, 373; XVII, 382  
 Purchasing Library Equipment—XIV, 258  
 Purchasing School Buses—XVII, 532  
 Purchasing Supplies and Equipment—XII, 182, 530; XIII, 178; XVI, 12, 28, 60, 256, 301, 398; XVII, 372, 378, 394, 401; XVIII, 246  
 Purdue University, Music Hall—XIII, 316  
 P.W.A. Construction—XII, 18, 58

## R

Radiant Heating—XIX, 100  
 Radio Facilities—XII, 298, 318; XIII, 329; XVI, 288; XVIII, 215  
 Recitation Rooms [See Classrooms]  
 Reconditioning and Remodeling—XI, 169; XII, 61, 185; XIII, 183, 387; XIV, 26, 298; XVII, 297; XIX, 167, 171  
 Record Systems for Child Accounting—XI, 343; XII, 368  
 Records [See also Forms]  
 Records for Cafeteria Department—XI, 422  
 Recreation, Cooperative Organization of in Cincinnati, Ohio—XII, 256  
 Recreation Facilities—XI, 235, 240, 244, 248, 254, 259, 265; XII, 216, 256, 261, 265; XIII, 20, 21; XIV, 23, 212; XVI, 52; XVIII, 177  
 Recreational Needs of Communities—XIII, 247; XIV, 212; XVI, 52  
 Regulatory Code—XVI, 81  
 Rehabilitation [See Reconditioning and Remodeling]

Renovating [See Reconditioning]  
 Repair Department—XI, 167; XII, 179, 185; XIII, 176; XIV, 152; XVII, 297; XVIII, 235  
 Research Laboratories—XII, 489; XIII, 478  
 Residence Hall [See Dormitory]  
 Rinks, Ice-Skating—XI, 259  
 Roads—XI, 215  
 Roof Design—XIII, 47  
 Roof Maintenance—XII, 189; XIII, 183; XIV, 152  
 Routes, Bus—[See Bus Routes]  
 Rugen School, Glenview, Ill.—XVI, 27  
 Rural Schools—XI, 17, 24; XII, 36, 51, 54, 223; XVIII, 75

## S

Safe Design—XIII, 61; XVII, 289 [See also Fire Protection]  
 Salvaging Materials and Equipment—XI, 169, 178; XII, 61; XVII, 296, 297  
 School Boards—XIX, 63; XX, 99  
 Science Building—XIII, 482; XVIII, 106; XX, 185  
 Science Laboratories—[See Laboratory]  
 Score Card for School Plants—41  
 Screens, Projection—XIV, 263  
 Seating, Types and Arrangement—XIII, 325; XIV, 242  
 Seattle, Wash., Thomas A. Edison Vocational School—XI, 525  
 Secondary Schools [See High Schools; Junior High Schools]  
 Seeing Conditions, Good—XIX, 93  
 Selective Service Boards and School Planning—XIV, 18  
 Seminar Room—XI, 291; XII, 494; XVI, 97  
 Service Facilities—XIX, 112  
 Servicing Laboratories—XI, 465; XIII, 476  
 Sewing Rooms—XI, 424; XIII, 20, 423, 517  
 Sexton High School, Lansing, Mich.—XVI, 220  
 Shelving, Library—XI, 299; XIV, 256  
 Shop for Chemistry Department—XIII, 491  
 Shop Layouts and Equipment—XI, 508; XII, 33, 34, 525, 531; XIII, 516; XIV, 412; XV, 194, 196; XVI, 72; XVII, 78, 84, 113; XVIII, 72, 165; XIX, 150  
 Shops for Industrial Arts—XIII, 531; XIV, 411; XV, 193, 196, 299; XVI, 88  
 Shops, Repair—XII, 181; XVII, 296, 297; XVIII, 235  
 Shower Facilities—XI, 47; XII, 253, 263, 268; XIII, 262; XV, 155  
 Shrubs—XII, 229  
 Simplified Practice Recommendation—XVI, 23  
 Sluiks—XI, 47; XVI, 84  
 Site Costs—XII, 18  
 Site Plans [See Grounds Plans]  
 Site Selection and Planning—XI, 204; XII, 22, 43; XIII, 217; XIV, 186, 212; XV, 36, 41; XVII, 31; XIX, 72, 76  
 Skating, Ice [See Ice Skating]  
 Ski Jumps, Construction of—XI, 248  
 Ski Shelters and Lodges—XI, 205  
 Ski Tows, Construction of—XI, 254  
 Ski Trails, Construction of—XI, 238, 244  
 Skylighting—XI, 42  
 Small Schools—XII, 51  
 Snow Sports [See Winter Sports]  
 Social-Studies Classrooms—XI, 292; XIV, 251  
 Sound Control [See Acoustical Planning]  
 Sound Equipment—XIII, 320; XVIII, 215 [See also Audio-Visual Aids; Radio Facilities]  
 Specifications, for Supplies and Equipment—XII, 182; XIII, 178; XVII, 372; XVIII, 246  
 Sports [See Physical Education; Recreation]  
 Stadium Design—XIX, 153  
 Stage Design and Equipment—XI, 304; XII, 26, 313; XIII, 295, 321; XIV, 268; XVI, 68; XVII, 128 [See also Auditoriums]  
 Stairways and Stairwells—XI, 33; XIII, 62  
 Stamford, Conn., Record-Keeping System—XII, 368  
 Standards for Health, Physical Education and Recreation Facilities—XVIII, 177  
 Standards for Transportation Service—XI, 540, 549; XII, 554; XVIII, 243  
 State Responsibility for School and College Buildings—XVIII, 41; XIX, 60  
 State Responsibility for Transportation Service—XI, 548; XII, 552, 554; XIII, 553; XVII, 533  
 State Support of Pupil Transportation—XIII, 553  
 Steamfitting—XII, 189  
 Stenography Classrooms—XIII, 374  
 Stokers—XIII, 173  
 Storage Facilities for Physics Department—XIII, 476

Storeroom Management—XVII, 300  
 Structural Types—XII, 14  
 Student Council Room [See Classrooms for School Activities]  
 Student-Forum Unit—XI, 289  
 Student Records [See Child Accounting]  
 Studies—XII, 424  
 Study Halls—XVIII, 72  
 Subsidizing, by Foundations—XII, 19  
 Summer Renovation Program—XII, 185  
 Supply Purchasing [See Purchasing]  
 Surfacing, Playground—XIII, 267  
 Surplus Property Disposal—XVII, 401  
 Swimming Pools—XII, 35, 250, 261, 270; XIII, 254; XIV, 220; XV, 153, 160; XVI, 52; XX, 174

## T

Tables, Laboratory—XII, 496  
 Teacher-Training Demonstration School—XIV, 49; XVIII, 54  
 Teachers College, Industrial Arts Facilities—XV, 196, 317, 321  
 Teachers College, Science Building for—XIII, 482  
 Teachers Colleges, Study of Recently Erected and Proposed Buildings—XVIII, 50  
 Teachers, Records on—XI, 344, 346  
 Teachers' Service Facilities—XIII, 53  
 Telephone Switchboard Practice Classroom—XIII, 376  
 Temperature Control—XI, 37  
 Tennis Courts—XII, 218  
 Termite Damage, Protection Against—XIV, 157  
 Terraria—XI, 483  
 Testing, as Part of Purchasing Procedure—XII, 182; XIII, 178  
 Texas County, Missouri—XII, 223  
 Texas, University of, University Junior High School—XI, 292  
 Texas, University of, Home Economics Building—XVIII, 113  
 Textbook Selection—XVI, 301  
 Theaters—XI, 309; XIII, 295; XIV, 268; XVII, 128; XVIII, 91 [See also Stage]  
 Toboggan Chutes, Construction and Care of—XI, 240  
 Toilet Facilities—XI, 46; XII, 27, 263  
 Track—XII, 219  
 Trade Training Programs—XIII, 525  
 Transcribing Rooms—XIII, 374  
 Transportation, Costs and Financing—XIII, 553; XVII, 532  
 Transportation Service—XI, 539; XII, 551; XVII, 531, 536, 540; XVIII, 243  
 Trees, Care of—XII, 180, 220  
 Tulsa, Okla., Will Rogers High School—XII, 28  
 Turf Areas—XII, 217; XV, 130  
 Twelve-Grade School—XIV, 41, 49  
 Typing Classrooms—XI, 356; XII, 376, 377; XIII, 375; XIV, 246, 304; XV, 201; XVI, 88 [See also Commercial Education]

## U

United States Military Academy, Ice-Skating Rink—XI, 262  
 Universities [See Colleges]  
 Upkeep [See Maintenance]  
 Urinals—XI, 47  
 Utilization—XII, 14, 23

## V

Vacuum-Cleaning System—XI, 51; XIV, 165  
 Varnish, Floor—XIII, 192  
 Ventilating Systems—XI, 37; XII, 16, 189; XIII, 256, 264  
 Ventilation, Toilet-Room—XI, 46  
 Village College in England—XVIII, 75  
 Visual Conditions [See Lighting]  
 Visual-Education Facilities—XI, 312; XII, 316; XIII, 322; XIV, 259; XV, 205; XVI, 90, 100  
 Vocational Adjustment Service—XII, 525  
 Vocational School Design and Equipment—XII, 525; XIII, 516; XV, 327; XVI, 72; XVII, 78, 84, 113; XVIII, 35, 161  
 Vocational Training Programs—XII, 516, 525; XIV, 405; XV, 299; XVI, 72, 88

## W

Walks—XI, 215; XII, 218  
 Walls and Partitions—XII, 45; XIX, 86  
 Wappingers Central School, N. Y.—XIII, 222  
 War, Impact of, on School Planning—XIV, 13





- Wardrobes—XII, 426  
Washington and Lee University, Buildings and Grounds Maintenance—XII, 177  
Water Closets—XI, 47; XII, 27  
Waterproofing—XIII, 47; XIV, 154  
Water Supply—XI, 47  
Wayne University—XX, 216  
West Point, N. Y., Ice-Skating Rink at United States Military Academy—XI, 262  
West Virginia, Kanawha County's School Building Program—XII, 54  
Williams College, Adams Memorial Theater—XIII, 295  
Window Lintel Construction—XIV, 156  
Windows—XII, 24; XX, 138, 231  
Winnetka, Ill., Crow Island School—XIV, 62  
Winnetka, Ill., Home Economics Department of New Trier Township High School—XI, 424  
Winter Sports Facilities—XI, 235, 240, 244, 248, 254, 259, 265  
Winter Sports, Place of in Physical-Education Program—XI, 236  
Winthrop College, Home Economics-Nursery School Building—XVIII, 118  
Wisconsin, State School Building Service—XII, 36  
Wisconsin, University of, Theater and Arts Addition—XII, 48, 49; XIV, 270; XVIII, 91  
Woodwork Shop—XII, 181, 532; XVI, 72 [See also Shop Layouts and Equipment; Shops for Industrial Arts]

# Index to Authors

This index covers the present Volume XX (1948-49) and Volumes XIX (1947-48), XVIII (1946), XVII (1945), XVI (1944), XV (1943), XIV (1942), XIII (1941), XII (1940), and XI (1939).

## A

Abramovitz, Max—XIII, 37  
Adams, Arthur S.—XIX, 135  
Adams, L. O.—XIII, 190  
Alexander, Robert E.—XX, 202  
Allen, F. Ellwood—XIV, 212  
Allen, Harvey K.—XIX, 158  
American Library Association—XVI, 292  
Ashley, Edward E.—XIX, 112

## B

Baldwin, J. W.—XI, 292  
Barrows, Alice—XII, 313  
Beard, Cora—XVIII, 203  
Bedford, Fred L.—XVIII, 199  
Beiknap, B. H.—XVII, 540  
Bennett, Henry Eastman—XIII, 325  
Best, Clarence J.—XVIII, 184  
Betts, Bertram A.—XIX, 144  
Bickley, E. L.—XIII, 183  
Bilderssee, Max U.—XVIII, 215  
Blackler, William R.—XIII, 381  
Boutwell, William Dow—XVI, 288  
Bookwalter, Karl W.—XVIII, 177  
Brace, David K.—XVI, 90  
Bradshaw, Barbara—XVIII, 203  
Briggs, Lawrence E.—XI, 248  
Briscoe, William S.—XX, 231  
Britton, Jasmine—XIX, 124  
Brody, Knute O.—XII, 51  
Broome, Edwin W.—XIII, 40; XIX, 72  
Brown, Leland H.—XIV, 57  
Burke, Arvid J.—XVIII, 41  
Burket, Rhees E.—XV, 17  
Burns, H. Spilman—XIII, 178; XVII, 372  
Burns, Zed H.—XIII, 482  
Burridge, George A.—XVII, 84  
Burach, Charles—XI, 24; XVI, 68; XVII, 72  
Bush, Donald W.—XIII, 217  
Bush, George H.—XX, 145  
Butler, George D.—XIV, 212  
Butts, Porter—XVIII, 91

## C

Cain, Henry L.—XIX, 69  
Campen, Jr., Herman M.—XVII, 382  
Carr, William G.—XI, 13  
Cellarius, Charles F.—XVIII, 106  
Christy, Elmer W.—XIV, 411  
Churchill, Henry S.—XX, 95  
Clapp, P. G.—XVII, 132  
Clapp, Wilfred F.—XVIII, 69; XX, 30  
Clark, John A.—XII, 499  
Clements, D. M.—XVIII, 161  
Cochran, Frank Lee—XIX, 63  
Cocking, Walter D.—XVI, 95, 104; XVII, 17; XVIII, 246  
Coelln, O. H., Jr.—XVIII, 136  
Cole, Edward C.—XIII, 295  
Coleman, John B.—XIII, 516  
Coleman, William H.—XVII, 35; XVIII, 62  
Cooney, William J.—XV, 327  
Coover, S. L.—XV, 317  
Corbitt, B. S.—XVII, 295  
Cordier, Alberta B.—XV, 190  
Cornwell, Oliver K.—XII, 265  
Corrington, Julian D.—XI, 480  
Courtier, C. V.—XII, 250  
Cragwell, Sarah E.—XVIII, 118  
Crawford, C. L.—XI, 171

## D

Davenport, W. A.—XIV, 165  
Davis, Fanny Fern—XV, 130  
Day, Lloyd N.—XVII, 119  
Dearden, Eleanor M.—XV, 188  
De Bernardis, Amo—XIV, 259  
Dent, H. C.—XVIII, 75  
Desmond, Thomas H.—XII, 217  
D'Evelyn, Katherine—XVIII, 203  
Diemer, G. W.—XIV, 218  
Dolloff, Norman H.—XV, 193  
Dooley, Raymond—XX, 253  
Dotter, A. D.—XIV, 41  
Douglas, Mary Pencock—XI, 297  
Du Fraim, F. J.—XVII, 297  
Duncan, A. O.—XVIII, 170  
Dyson, C. E. C.—Fuller—XX, 228

## E

Early, Doyt—XI, 24  
Ebey, George W.—XI, 304  
Ehlers, Mabelle S.—XV, 247  
Elsen, Edna E.—XIX, 188  
Ellsworth, Ralph E.—XVI, 97; XVIII, 98  
Engelhardt, N. L.—XI, 19; XIII, 15; XIV, 13, 248; XV, 11; XVI, 398; XVII, 12; XVIII, 28; XIX, 48; XX, 55  
Engelhardt, N. L., Jr.—XIII, 13; XIII, 247  
Ernst, Joseph L.—XII, 182  
Erwin, Clyde A.—XX, 260  
Essex, Don L.—XVII, 68; XVIII, 231; XX, 124  
Evenden, E. S.—XVIII, 50

## F

Farnam, Mary—XI, 419  
Featherston, Glenn E.—XVII, 536; XVIII, 243; XIX, 146  
Featherstone, Richard L.—Whitehead—XX, 102  
Feiss, Carl—XX, 32  
Ferrara, Anthony—XIII, 288  
Fetzer, R. A.—XII, 265  
Field, Hermann H.—XX, 38  
Flisk, McKee—XIII, 372  
Fleming, Mary Owens—XX, 150  
Fleming, Samuel E.—XII, 525  
Foulk, W. R.—XI, 465; XIV, 373  
Fowlkes, John Guy—XI, 343; XVIII, 25  
Fox, L. W.—XVI, 72  
Freegard, Ruth—XII, 435  
French, Prentiss—XX, 113  
Fries, Albert C.—XVIII, 155  
Friswold, I. O.—XIII, 262; XVI, 225  
Fulcomer, Edwin S.—XIII, 24  
Fuller, C. H. R.—Dyson—XX, 228

## G

Gage, George E.—XII, 496  
George, N. L.—XVI, 236  
Gibson, Charles D.—XVII, 72; XVIII, 219  
Given, John N.—XI, 351  
Givens, Harrison C.—XVII, 78  
Gleiser, Fern W.—XIII, 429  
Goldthorpe, J. Harold—XVII, 401  
Goldthorpe, H. Harold—Hollis—XX, 86  
Gore, Harold M.—XI, 235  
Gott, Francis Hastings—XIV, 185  
Graff, Orin B.—XVII, 58  
Graham, James L.—XVII, 23  
Granger, Alfred T.—XVII, 102  
Grieder, Calvin—XVII, 26; XX, 99

## H

Hacker, Ralph E.—XII, 203; XVI, 60  
Haegearty, Frank—XII, 223  
Halverson, J. John—XVII, 31  
Hamon, Ray L.—XI, 42; XVIII, 21; XIX, 39  
Hamon, Ray L.—Viles—XX, 50  
Hanson, Abel—XIII, 53  
Hardesty, Cecil D.—XII, 308; XVIII, 84  
Hare, Michael M.—XIV, 268; XVIII, 95; XX, 161  
Hare, S. Herbert—XIII, 217  
Harper, Earl E.—XVII, 126  
Harris, Katharine W.—XV, 239  
Harrison, Wallace K.—XI, 288  
Haskew, Laurence D.—XVIII, 54  
Heflin, Beas—XVIII, 113  
Henderson, Philip E.—XVIII, 106  
Herr, Ben B.—XI, 166  
Herrick, John H.—XIX, 76  
Hewes, Harry L.—XX, 174  
Hewitt, Carter—Scruggs—XX, 236  
Higgins, Thomas J.—XIII, 322; XVI, 88; XIX, 150  
Hill, Chance S.—XI, 203  
Hippaka, T. A.—XII, 531  
Hoban, Charles F., Jr.—XI, 312  
Hollenberg, A. H.—XVIII, 161  
Hollis, Ernest V.—XII, 19  
Hollis, Ernest V.—Goldthorpe—XX, 86  
Holmes, Warren S.—XI, 31; XV, 43  
Holmstedt, R. W.—XIV, 49  
Holy, T. C.—XVI, 400  
Ho'y, T. C.—Thomson—XX, 41  
Horn, Alwin J.—XVI, 232  
Horner, V. C.—XIV, 157  
Hosler, Fred W.—XIX, 171

Houston, Ruth E.—XII, 246  
Hoy, W. W.—XII, 223  
Hynds, Harold D.—XVIII, 234  
Hunter, Melissa—XI, 409  
Hutchins, C. D.—XIII, 553  
Hylton, Maye—XV, 201

## I

Ickes, Harold L.—XI, 5  
Ingemann, William M.—XIII, 432  
Irons, Gerold E.—XIV, 26

## J

James, Leonard V.—XIX, 93  
James, Preston E.—XIX, 194  
Jardine, Alex.—XII, 316  
Johnson, Betty K.—XVIII, 36  
Joyner, S. C.—XI, 174; XIX, 199

## K

Keller, William K.—XIV, 21  
Kerstetter, Harold—XIII, 490  
Kibham, Walter H., Jr.—XVI, 18; XX, 193  
Kimball, Warren Y.—XVII, 289  
King, Lloyd W.—XVI, 305; XIX, 181  
Konarski, M. M.—XII, 54  
Kramer, Edward—XVII, 107  
Kump, Ernest J.—XIX, 100  
Kunkel, Robert F.—XI, 42

## L

Lambert, A. C.—XII, 550  
Lamp, Charles J.—XII, 301  
Lawler, Eugene S.—XX, 46  
Leggett, Stanton—XI, 52; XIII, 301  
Leas, Joseph M.—XIV, 248  
Lerner, Paul A.—XV, 397  
Lesauze, William—XV, 33  
Leubring, F. W.—XII, 261  
Levenson, William B.—XIII, 329  
Levy, George—XIII, 288  
Lewis, John W.—XVI, 404; XVII, 372  
Lewis, Samuel R.—XI, 37; XVI, 228  
Liebeskind, Morris—XIX, 153  
Lighter, Jane Winter—XI, 424  
Lindman, Erick L.—XIX, 60  
Linn, H. H.—XVII, 281; XIX, 106  
Lochs, Gilbert Frederick—XIV, 222  
Long, Paul E.—XVII, 117  
Long, Raymond V.—XVI, 23  
Longman, Lester D.—XVII, 127  
Lorimer, A. Gordon—XIX, 80  
Lounsbury, E. L.—XIV, 414

## M

Mable, E. C.—XVII, 128  
Magrath, Raymond C.—XIV, 298  
Manley, C. B.—XII, 28  
Mansell, T. Norman—XX, 63  
Markus, Frederick E.—XIV, 242  
Marshall, John E.—XIX, 202, 207  
Maslow, Harry—XIII, 288  
Mettice, Malcolm Cowan—XIX, 139  
Maxfield, J. P.—XII, 43  
McAdams, Frank J.—XV, 160  
McCarthy, John A.—XIII, 525  
McCleery, Helen E.—XVI, 84  
McGrath, D. E.—XVII, 297  
McKown, Harry C.—XIV, 265  
McLain, Walter—XIII, 172  
McLeod, John W.—XIII, 288  
McMurry, Ben F.—XVII, 278  
Meadows, A. R.—XVII, 552; XX, 263  
Mellenbrook, Foley and Scott—XIV, 349  
Mendenhall, James E.—XVI, 80  
Mew, G. H.—XX, 223  
Miller, Bruce J.—XIII, 490  
Miller, Chester F.—XIII, 61  
Miller, Mervyn V.—XVIII, 152  
Miller, Ward L.—XX, 77  
Milgate, Irvine H.—XVIII, 136  
Mitchell, E. D.—XV, 152  
Mitchell, Walter Kimball, Jr.—XI, 265  
Mock, Elizabeth E.—XV, 37  
Mock, Rudolf—XV, 37  
Molner, Joseph G.—XIII, 51  
Moore, Harold E.—XX, 70  
Morris, Margaret M.—XVIII, 127  
Morphet, Edgar L.—XI, 539  
Muschell, Charles S.—XIX, 52





## N

Nash, Jay B.—XV, 165  
 Naugher, R. E.—XVIII, 161  
 Neef, Arthur—XX, 216  
 Nestruck, W. Virgil—XIII, 528  
 Newburn, H. K.—XVII, 126  
 Newkirk, Louis V.—XV, 313; XIX, 150  
 Nichols, John E.—XV, 177; XVI, 31  
 Noeka, Paul F.—XIV, 242; XVIII, 209  
 Noel, Francis W.—XVI, 100

## O

Oppermann, W. F.—XIII, 516

## P

Palmer, Florence—XIII, 422  
 Park, R. H.—XII, 185  
 Parker, J. Cecil—XVI, 297  
 Parker, Laurence—XIV, 161; XVI, 410  
 Parsons, Edgar W.—XIX, 122  
 Patterson, Dow—XX, 157  
 Peppe, Michael—XIII, 254  
 Perkins, Lawrence E.—XIV, 66; XVI, 25;  
 XVIII, 69; XIX, 63; XX, 27  
 Perry, K. F.—XV, 196  
 Potwin, C. C.—XII, 43  
 Powell, Herbert J.—XV, 22  
 Power, Leonard—XVI, 46  
 Price, Charles D.—XV, 193  
 Proud, Dorothy—XV, 239  
 Putnam, Paul S.—XI, 254

## R

Reld, John Lyon—XV, 26  
 Reynolds, Helen—XIV, 304  
 Rich, Lorimer—XX, 109  
 Robinson, Ormsbee W.—XVI, 52  
 Rogers, Don C.—XVI, 301  
 Rollins, J. Leslie—XIV, 333  
 Rosenberg, Albert J.—XIX, 177  
 Rosenfield, Isadore—XX, 131  
 Ross, Margaret M.—XIV, 254  
 Ryan, Barbara—XVIII, 110

## S

Sampson, Foster K.—XVIII, 219  
 Sawyer, O. G.—XVII, 378  
 Scherer, F. R.—XII, 298; XX, 141  
 Schmidt, Hans W.—XII, 36

Scholer, Walter—XIII, 316  
 Schultz, William, Jr.—XV, 193  
 Schultz, George L. W.—XIV, 35; XX, 138  
 Schwarz, Karl R.—XIX, 117  
 Schwebel, George A.—XIII, 387  
 Scruggs, John D.—Hewitt—XX, 236  
 Seagers, Paul W.—XVIII, 225  
 Seaton, Helen Hardt—XVII, 397  
 Setzer, Bernice V.—XIII, 333  
 Sexson, John A.—XVI, 14  
 Shafer, R. W.—XX, 118  
 Sharp, L. B.—XVIII, 192  
 Shigley, Arthur—XV, 43  
 Shire, A. C.—XIII, 267  
 Simonson, Jacob—XVII, 113  
 Simonson, Lee—XII, 313  
 Sipp, Mildred—XVIII, 116  
 Slocum, Chester A.—XI, 46  
 Smith, Eberle M.—XIX, 86  
 Smith, George F., Jr.—XVII, 386  
 Smith, Howard Dwight—XII, 421; XIII,  
 254; XVI, 36; XIX, 43  
 Smith, H. L.—XVIII, 32  
 Smith, Mary—XVIII, 203  
 Smith, S. L.—XIX, 162  
 Snow, Russell L.—XI, 259  
 Snow, Samuel P.—XI, 240  
 Sohn, Frank—XIX, 21  
 Spach, R. J.—XX, 177  
 Spence, B. J.—XV, 270  
 Spillane, Marilyn—XVIII, 203  
 Stanforth, A. T.—XIX, 132  
 Staples, Leon C.—XII, 368  
 Steen, M. M.—XIV, 152  
 Stein, Clarence S.—XVII, 40  
 Stelling, A. Carl—XIII, 222  
 Stevens, Donald P.—XIX, 34  
 Stoneman, Merle A.—XII, 51  
 Stouffer, Ernest L.—XVII, 62  
 Strickler, W. E.—XVII, 300  
 Stripling, James A.—XII, 22  
 Strong, Foster—XIII, 476  
 Struck, F. Theodore—XIV, 405  
 Studebaker, M. E.—XII, 373  
 Sutherland, Samuel J.—XVI, 232  
 Swanson, J. Chester—XIX, 171

## T

Taylor, Albert D.—XI, 203  
 Terrell, Margaret E.—XI, 413  
 Thayer, Clark L.—XII, 498  
 Thompson, L. O.—XIX, 144

Thompson, Ronald B.—Holy—XX, 41  
 Thurston, Lee M.—XVII, 54  
 Tonne, Herbert A.—XI, 353  
 Trautman, Paul R.—XIV, 349  
 Tremel, Louis—XVIII, 235

## V

Van Nuys, Jay C.—XIX, 57  
 Van Maie, John—XVII, 394  
 Van Vleck, Ernest A.—XIX, 112  
 Veech, J. Alexander—XII, 177  
 Viles, N. E.—XVI, 406; XIX, 167  
 Viles, N. E.—Hamon—XX, 50  
 Vincent, Robert—XI, 244  
 Voegell, Henry E.—XIII, 47

## W

Wahl, H. R.—XII, 489  
 Waite, Lloyd L.—XV, 193  
 Walter, Frank K.—XIII, 307  
 Washam, F. O.—XIII, 438  
 Washburne, Carlton—XIV, 62  
 Webber, Owen—XII, 438  
 Whipple, Gertrude—XIX, 194  
 Whitehead, Willis A.—XI, 508  
 Whitehead, Willis A.—Featherstone—XX,  
 102  
 Whitesel, John A.—XV, 299  
 White, Sarah—XVIII, 203  
 Whitford, B. Frank—XII, 368  
 Whitney, Frederick L.—XV, 89  
 Whittemore, H. O.—XVI, 220  
 Wilber, Gordon O.—XV, 321  
 Wiles, Lawson A.—XIV, 345  
 Wiley, John H.—XIX, 184  
 Wiley, G. E.—XX, 244  
 Wiley, Will E.—XIX, 184  
 Williams, Frank—XIV, 339  
 Williams, Seymour—XVIII, 47  
 Windle, Mary Emile—XV, 205  
 Winkel, L. W.—XVI, 410  
 Wright, Henry L.—XV, 184  
 Wrigley, Lowell A.—XVII, 94

## Y

Young, Theodore J.—XX, 185

## Z

Zisman, S. B.—XIII, 28

